



## Five Year Reviews

**Army Environmental Command**

**Environmental and Munitions Center of Expertise  
(EMCX)**

**US Army Corps of Engineers**

**December 2007**



## Presentation Outline

- **Guidance Available**
- **Lessons Learned**
- **Army Five-Year Review Process**
- **Points of Contact**



## Guidance

- **EPA's Comprehensive Five-Year Review Guidance dated June 2001, EPA 540-R-01-007**
- **2004 Five-Year Review – Questions & Answers**

**<http://www.epa.gov/superfund/cleanup/postconstruction/5yr.htm>**

- **Future EPA Guidance Docs: Institutional Controls, Sediments, and Land Reuse**
- **Army Guidance is pending**



## Types of Reviews

**Reference: page 1-3 of EPA Guidance for definitions.**

**Statutory**

**Discretionary**

**Policy**

# Five-Year Reviews



## Types of Reviews

CERCLA

PBA Warranty

Periodic



## Lessons Learned-Big Pictures

- **Installation wide**
- **Identify trigger action and confirm date**
- **Accurate information in AEDB-R**
- **Vapor Intrusion needs addressed**
- **Large Installations – group sites to evaluate similar remedies**
- **CX Workshop available to mentor Corps Districts**

# Five-Year Reviews





## Protectiveness Determination

**Question A: Is the remedy functioning as intended by the decision documents?**

**Question B: Are the exposure assumptions, toxicity data and RAOs used at the time of remedy selection still valid?**

**Question C: Has any other information come to light that could call into question the protectiveness of the remedy?**





## Optimization

- **Can long-term operations be further optimized?**
  - RAO/LTM optimization is given the fullest consideration during the review



## Issues/Recommendations/Implementation

- **Recommendations identified**
- **Responsibility/timeframe for implementation identified**
- **Implementation status tracked**



## FY08 Five Year Reviews - AEDB-R

- West Point Military Reservation
- Fort Lee
- Sacramento Army Depot
- Blue Grass Army Depot
- National Training Center and Fort Irwin
- Pine Bluff Arsenal
- Fort Richardson
- Fort Rucker
- Rocky Mountain Arsenal
- Fort Leavenworth
- Kansas AAP
- East Windsor USARC
- Newport Chemical Depot
- Hamilton Army Airport
- Oakland Army Base
- USARC Milwaukee (Silver Springs)
- Badger AAP
- Deseret Chemical Depot
- Hawthorne Army Depot
- Aberdeen Proving Ground
- Fort Eustis
- Fort McClellan
- Fort Detrick



## Army Process

- **AEDB-R is used to identify sites requiring reviews**
  - **Installation and AEC managers notified annually, execution method determined**
- **AEC has designated the US Army Corps of Engineers Environmental and Munitions Center of Expertise ( EM CX) responsible for execution for ER, A funded installations**
  - **Exception: Where the Five-Year Review is a contract requirement in Performance Based Contracts (PBCs)**
- **At BRAC Division's request, EM CX will perform five-year reviews at BRAC funded installations**



## Army Process

- **EM CX responsible for Quality Assurance (QA) review of all Five Year Reviews conducted, regardless of execution method**
- **Corps Districts execute for CX with our oversight, Districts mentored by CX staff**
- **Same process for National Priority List (NPL) and non-NPL sites**
- **Team effort with Installation, AEC manager, regulators, EM CX, USACE districts and/or PBC contractor**



## Getting Started

- **If EM CX execution:**
  - Background information sheet prepared by AEC manager with assistance from installation
  - Scope, cost estimate and schedule is negotiated with executing Corps district and AEC manager
  - EM CX is provided funding from AEC to accomplish Army IRP reviews
  - EM CX is provided funding from BRAC Division to accomplish Army BRAC reviews
- **If PBC execution:**
  - EM CX conducts QA review only
- **IAP should identify anticipated costs:**
  - Costs range from \$25,000 for single site installations up to \$100,000 for multiple complex sites on large installations



## Schedule/Completion

- **Schedule must achieve completion date tracked in AEDB-R, which is used in Report to Congress**
- **Plan for 6 to 9 months to complete**
- **Completion date corresponds to EPA concurrence date for NPL sites, and Installation commander signature date for non-NPL sites**
- **Signature date used to determine next review date (5 years from signature)**



## Repository

- **EM CX is keeping a repository for electronic versions of final Five-Year Review reports (pdf and source files) for use in future reviews (signature page included)**
- **Repository for Environmental Army Documents (pdf only)**
- **AEDB-R lists 43 completed reviews**





## Completed Five Year Reviews

- Defense Mapping Agency-Herdon
- Cornhusker AAP
- Ernie Pyle USARC/AMS#12
- Fort George G Meade
- Umatilla Chemical Depot
- Twin Cities AAP
- Sunflower AAP
- Joliet AAP
- Fort Dix
- Lake City AAP
- Iowa AAP
- Fort Leavenworth
- Anniston Army Dept
- Milan AAP
- Fort Bliss
- Fort Gillem
- Devens Reserve Training Facility
- Detroit Arsenal
- Vint Hill Farms Station
- Tacony Warehouse
- Louisiana AAP
- Fort Wainwright
- Lone Star AAP
- Riverbank AAP



## Completed Five Year Reviews

- Letterkenny Army Depot
- Sudbury Training Depot
- Sierra Army Depot
- Defense Dist Depot Ogden
- Army Research Laboratory-Watertown
- Fort Chaffee
- Picatinny Arsenal
- Soldier Systems Center
- Tobyhanna Army Depot
- Fort Riley
- Fort Sill
- Presidio of Monterey
- Schofield Barracks
- Fort Ord Camp Kilmer
- Tooele Army Depot
- Fort Chaffee
- Camp Pedricktown
- Longhorn AAP